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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,531	12/30/2003	Jeffrey M. Cohen	67,097-034;EH11111	8555
26096 75	26096 7590 08/02/2005		EXAMINER	
CARLSON, GASKEY & OLDS, P.C.			CASAREGOLA, LOUIS J	
400 WEST MA SUITE 350	PLE ROAD		ART UNIT	PAPER NUMBER
BIRMINGHAN	л, MI 48009		3746	

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)	•			
Office Action Commons		10/748,531	COHEN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Louis J. Casaregola	3746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' risions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, I eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, manation. s, a reply within the statutory minimum of y period will apply and will expire SIX (6) No sy statute, cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this core ABANDONED (35 U.S.C. § 133).	nmunication.			
Status	•						
1)	Responsive to communication(s) filed o	n					
2a) <u></u> □	This action is FINAL. 2b)	☑ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.4.7.9.10 is/are rejected. 7) ⊠ Claim(s) 2.3.5.6.8 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers	•					
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119			,			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notice 2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTO or No(s)/Mail Date	Paper i	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-	.152)			

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Claim Rejections - 35 USC 112

Claims 7, 9 and 10 are rejected under 35 USC 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

The rejected claims recite a method including the step of "locating a first and second set of vanes within the augmentor section such that the flame systems from the sets of vanes are out of phase" (claim 7, lines 3-4). The claims are incomplete for omitting essential steps, the omission amounting to a gap between the steps (see MPEP 2172.01). Vanes per se cannot generate flame systems, and the omitted steps involve the essential requirement of providing a fuel flow from each set of vanes so as to produce the specified flame systems.

Claim Rejections - 35 USC 102

Claim 1 is rejected under 35 USC 102(b) as being anticipated by either Schmitt or Markowski.

Claim 1 is sufficiently broad to read on any augmentor section that includes axially spaced sets of vane elements, such as, the augmentor shown in either of the cited references. Attention is called to Figure 1 of Schmitt. In this case, the augmentor can

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be construed as starting at the point of afterburner unit 28 and extending downstream therefrom. Schmitt's augmentor section thus encompasses vanes 17 as well as streamlined struts 20, which can be construed as further vanes axially spaced from vanes 17.

Attention is additionally called to Figures 7-9 of Markowski. The augmentor shown encompasses vanes 94 as well as airfoil-shaped tube elements 172, which can be construed as further vanes axially spaced from vanes 94.

Claim 4 is rejected under 35 USC 102(b) as being anticipated by Markowski.

Note that Markowski's vane sets are located between inner body 46 (cone) and the inner wall surface of duct 30 (liner).

Allowable Subject Matter

Claims 2, 3, 5, 6 and 8 contain allowable subject matter but are objected to as depending from rejected parent claims. If rewritten in independent form, these claims will be allowed.

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Additional References

Holl is cited as disclosing a further example of an augmentor including vane elements, and Wisniowski and Truman are cited as disclosing examples of augmentors with screech reduction features.

L. J. Casaregola 571-272-4826 (M-F; 7:30-4:00) 571-273-8300 FAX August 1, 2005

LOUIS J. CASAREGOLA
PRIMARY EXAMINER

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Timothy Thorpe, can be reached at 571-272-4444.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).